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TITLE : PAPER SEPARATOR

ABSTRACT : PURPOSE: To prevent the degradation in picture quality occurring in the separator and reduce electric energy to be wastefully consumed by separating paper from photoreceptor with air blown through a nozzle and controlling the blowing intensity depending upon the kinds of paper.

CONSTITUTION: Compressed air from a dynamic pressure source 9 is blown from a nozzle 7 via supply path 10 to the paper being conveyed in close contact with the photoreceptor 2 on the peripheral surface of a photosensitive drum 1, whereby the paper is separated from the photoreceptor 2. A control valve 11 is provided to the abovementioned compressed air path 10 and is made operatable by handle, push-button, etc. The opening of the control valve 11 is set at plural stages equal to the number of kinds of quality of paper. For example, in the case of two kinds of plain paper and intermediate paper, the opening is set at the second stage. The opening of each stage is set at a suitable value corresponding to the operating mechanism of the separator. For example, in the case of the operating mechanism of buffer alone, it is set at two stages of strong (full opening) and normal (intermediate opening). To constitute the device in automatic operation system, a solenoid valve is used for the control valve and the solenoid valve is driven by providing a paper kind discriminating means 12.

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